

## Supporting Information

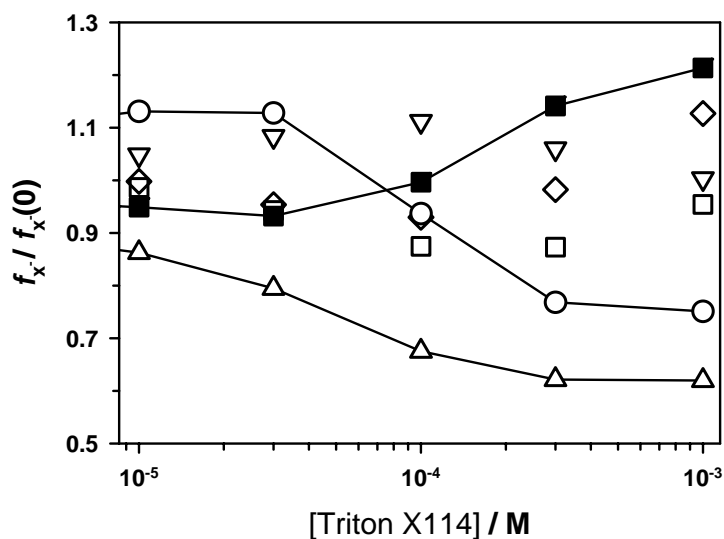


Figure 7: Symbols: Ratios of normalized anion affinities,  $f_X/f_X(0)$ , as function of Triton X-114. ■ (BF<sub>4</sub><sup>-</sup>); ◇ (NO<sub>3</sub><sup>-</sup>); ▽ (ClO<sub>4</sub><sup>-</sup>); □ (Br<sup>-</sup>); ○ (I<sup>-</sup>); △ (SCN<sup>-</sup>). [X<sub>i</sub><sup>-</sup>] = 0.1 mM.

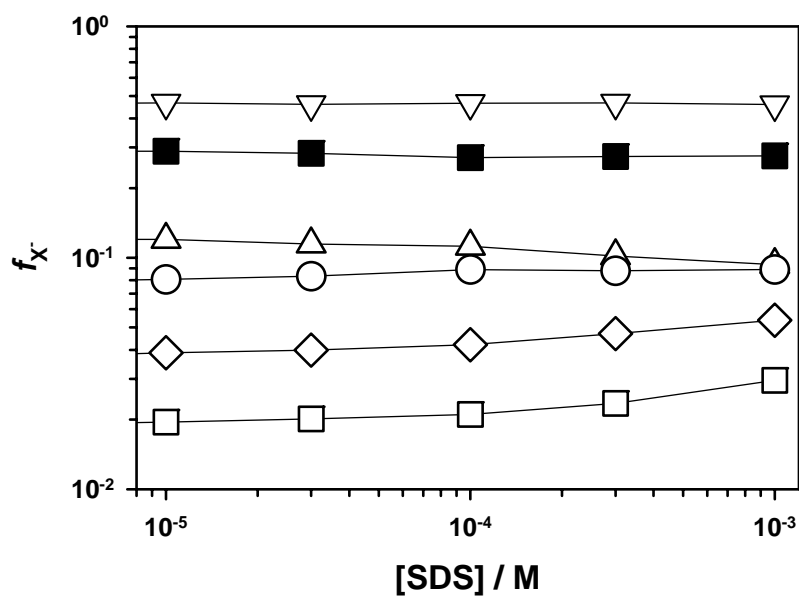


Figure 8. Symbols: Normalized anion affinities,  $f_X$ , as function of sodium dodecylsulfate (SDS) concentration. ■ (BF<sub>4</sub><sup>-</sup>); ◇ (NO<sub>3</sub><sup>-</sup>); ▽ (ClO<sub>4</sub><sup>-</sup>); □ (Br<sup>-</sup>); ○ (I<sup>-</sup>); △ (SCN<sup>-</sup>). [X<sub>i</sub><sup>-</sup>] = 0.1 mM.